#### AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

## Listing of the Claims

1. (Currently Amended) An optical computer readable medium having a data structure for managing reproduction of video data having multiple playback paths, comprising:

a data area directory storing a plurality of clip files of the video data having multiple playback paths, each clip file being associated with one <u>path</u> of the <u>multiple</u> playback paths, the video data including a plurality of data <u>packets</u>, each data <u>packet</u> having a packet number differentiating the data <u>packet</u> from the plurality of data <u>packets</u>;

a management area directory storing management information for managing reproduction of the video data having multiple playback paths, the management information including a plurality of information files, each clip file being associated with one of the information files, the one associated information file providing at least one map, the map identifying at least one entry point for the associated clip file by identifying the packet number of the data packet of the at least one entry point, the map mapping a presentation time stamp to a corresponding address in the associated clip file; and

a playlist directory area storing at least one playlist file including at least

one playitem, the plurality of clip files being associated with the playlist, the playitem identifying at least one a playing interval in the plurality of clip files associated with the multiple playback paths, the playitem identifying the information files associated with the clip files of the playing interval, the playlist file storing connection information between a previous playitem and a current playitem, the playlist file including path number information identifying which playback paths are associated with the playlist.

2. (Currently Amended) The <u>optical</u> computer readable medium of claim 1, wherein a group of playlist files is associated with each playback path.

## 3-5. (Canceled)

6. (Currently Amended) The <u>optical</u> computer readable medium of claim 1, further comprising:

navigation information in a navigation area, the navigation information managing the playlist file to be reproduced.

- 7. (Currently Amended) The <u>optical</u> computer readable medium of claim 6, wherein the different playback paths are related to different stories.
- 8. (Canceled)

9. (Currently Amended) The <u>optical</u> computer readable medium of claim 1, wherein

the data directory stores a plurality of clip files of the video data having multiple playback paths, and

the video data for each playback path is stored in a different clip file.

10-15. (Cancelled)

16. (Currently Amended) A method of <u>reproducing a data structure for</u> managing reproduction of video data having multiple playback paths from a recording medium, <u>the method</u> comprising:

receiving user input-selecting one of playback paths;

reproducing at least one playlist file associated with the selected playback path recorded on from the recording medium, the playlist file including at least one playitem, the playitem identifying at least one a playing interval in [[a]] clip files associated with the multiple playback paths, the each clip file being associated with one path of the multiple playback paths the playlist, the playitem identifying the information files associated with the clip files of the playing interval, the playlist file storing connection information between a previous playitem and a current playitem, the playlist file including information for path number information identifying which playback paths are associated with the playlist;

reproducing the clip file of the video data having multiple playback paths

from the recording medium, the video data including a plurality of data packets, each data packet having a packet number differentiating the data packet from the plurality of data packets;

reproducing at least one clip file of the video data having multiple playback paths from the recording medium; and

reproducing management information for managing reproduction of the video data having multiple playback paths from a management area of the recording medium, the management information including a plurality of information files, the clip file being associated with one of the information files, the <u>associated</u> information file providing at least one map, the map identifying at least one entry point for the associated clip file <u>by identifying the packet number of the data packet of the at least one entry point</u>, the map mapping a presentation time stamp to a corresponding address in the associated clip file.

- 17. (Previously Presented) The method of claim 16, wherein the reproducing step reproduces a group of playlist files based on navigation information for managing the playlist files.
- 18. (Currently Amended) A method of recording a data structure for managing reproduction of at least video data <u>having multiple playback paths</u> on a recording medium, <u>the method</u> comprising:

recording a playlist directory including at least one playlist file in a playlist directory area of the recording medium, the playlist file for identifying a

portion of video data having multiple playback paths, the playlist file including at least one playitem, the playitem identifying at least one playing interval in a clip file, the clip file being associated with the playlist, the playlist file storing connection information between a previous playitem and a current playitem, the playlist file including path number information identifying which playback paths are associated with the playlist;

recording the a plurality of clip files of the at least video data having multiple paths on in a data area of the recording medium, the each clip being associated with one path of the multiple playback paths, the video data including a plurality of data packets, each data packet having a packet number differentiating the data packet from the plurality of data packets; and

recording management information for managing reproduction of the at least video data in a management area of the recording medium, the management information including a plurality of information files, the each clip file being associated with one of the information files, the associated information file providing the at least one map identifying at least one entry point for the associated clip file by identifying the packet number of the data packet of the at least one entry point, the map mapping a presentation time stamp to a corresponding address in the associated clip file; and

recording at least one playlist file including at least one playitem on the recording medium, the playitem identifying a playing interval in plurality of clip files associated with the multiple playback paths, the playitem identifying the information files associated with the clip files of the playing interval, the

playlist file storing connection information between a previous playitem and a current playitem.

#### 19. (Cancelled)

20. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least video data having multiple playback paths, comprising:

an optical pickup configured to record data on a recording medium; and a controller, operably coupled to the optical pickup, configured to control the optical pickup to record at least one a plurality of clip files of the encoded video data having multiple playback paths in a data area on the recording medium, the each clip file being associated with one path of the multiple playback paths, the controller configured to control the optical-pickup-to-record at least one playlist-file, the playlist file including at least one playitem in a playlist directory area of the recording medium, each playlist file for identifying a portion of the video data, the playitem identifying at least one playing interval in the clip-file, the playlist file storing connection information-between a previous playitem and a current playitem, the playlist file including path number information identifying which playback paths are associated with the playlist, the clip-file being-associated with the playlist, the controller configured to control the optical pickup to record management information for managing reproduction of the encoded video data having multiple playback paths on in-a

management area of the recording medium, the video data including a plurality of data packets, each data packet having a packet number differentiating the data packet from the plurality of data packets, the management information including a plurality of information files, the each clip file being associated with one of the information files, the associated information file providing the at least one map identifying at least one entry point for the associated clip file by identifying the packet number of the data packet of the at least one entry point, the map mapping a presentation time stamp to a corresponding address in the associated clip file, the controller configured to control the optical pickup to record at least one playlist file including at least one playitem on the recording medium, the playitem identifying a playing interval in the plurality of clip files associated with the multiple playback paths and identifying the information files associated with the clip files of the playing interval, the playlist file storing connection information between a previous playitem and a current playitem, the playlist file storing information identifying which playback paths are associated with the playlist.

21. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of at least video data having multiple playback paths, comprising:

an optical pickup configured to reproduce data recorded on a recording medium; and

a controller, operably coupled to the optical pickup, configured to control

playitem from in a playlist directory area of the recording medium, the playlist file for identifying a portion of the video data, the playlist file including at least one playitem, the playitem identifying at least one a playing interval in [[a]] clip files associated with the multiple playback paths, each clip file being associated with one path of the multiple playback paths, the playitem identifying at least one information file associated with the clip file and identifying the information files associated with the clip files of the playing interval, the playlist file storing connection information between a previous playitem and a current playitem, the playlist file including information for identifying a total number of playback paths associated with the playlist the playlist file including path number information identifying which playback paths are associated with the playlist, the clip file being associated with the playlist,

the controller configured to control the optical-pickup to reproduce the clip file of the at least video data from a data area of the recording medium, the elip file being associated with one of the playback paths,

the controller configured to control the optical pickup to reproduce management information for managing reproduction of the at least video data having multiple playback paths from a management area of the recording medium, the video data including a plurality of data packets, each data packet having a packet number differentiating the data packet from the plurality of data packets, the management information including a plurality of information files, the each clip file being associated with one of the information files, each

associated information file providing at least one map, the map identifying at least one entry point for the associated clip file <u>by identifying the packet number of the data packet of the at least one entry point</u>, the map mapping a presentation time stamp to a corresponding address in the associated clip file, and

the controller configured to control the optical pickup to reproduce at least one clip file of the video data from the recording medium.

# 22. (Cancelled)

- 23. (Previously Presented) The apparatus of claim 20, wherein a group of playlist files is associated with each playback path.
- 24. (Currently Amended) The apparatus of claim 23, wherein navigation information is stored on the recording medium in a navigation area, the navigation information for managing the playlist file.
- 25. (Previously Presented) The apparatus of claim 21, wherein a group of playlist files is associated with each playback path.
- 26. (Currently Amended) The apparatus of claim 25, wherein navigation information is stored on the recording medium in a navigation area, the navigation information for managing the playlist file.

### 27-28. (Cancelled)

- 29. (Currently Amended) The method of claim 16, further comprising: reproducing navigation information stored on the recording medium in a navigation area, the navigation information for managing the playlist file.
- 30. (Previously Presented) The method of claim 29, wherein the reproducing at least one playlist file reproduces a group of playlist files based on the navigation information.

#### 31. (Cancelled)

- 32. (Previously Presented) The method of claim 18, further comprising: recording navigation information for managing the playlist file.
- 33. (Previously Presented) The method of claim 32, wherein the recording at least one playlist file records a group of playlist files based on the navigation information.

#### 34-36. (Cancelled)

37. (Currently Amended) The optical computer readable medium of

claim 1, wherein the at least one clip file is linked to more than one of the plurality of playlist files.

#### 38-43. (Cancelled)

44. (Currently Amended) The <u>optical</u> computer readable medium of claim 1, wherein the clip file includes source packets, the source packets including a header and a transport packet, the transport packet including a packet identifier (PID), the source packet including a source packet number indicating the address in the clip file.

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